

**Amendments to the Claims:**

Please, **amend** pending Claim 1 to read as follows:

- B1
1. (Amended) An antibody or antibody fragment specific to a domain of a gastro-intestinal tract (GIT) targeting agent, said targeting agent comprising a protein that specifically binds to a GIT receptor.

Please, **add** new Claims 9-11 as follows:

9. An antibody or antibody fragment of Claim 1, wherein the GIT transport receptor is selected from the group consisting of D2H (domain 387-685) (SEQ ID NO:13), hS1 (domain 272-667) (SEQ ID NO:14), HPT1 (domain 29-273) (SEQ ID NO:15), and hPEPT1 (domain 391-571) (SEQ ID NO:16).

10. An antibody or antibody fragment of claim 9, wherein the protein comprises either an amino acid sequence selected from the group consisting of SEQ ID NOS: 17-71 or a receptor binding portion of the amino acid sequence.

B2 contd.  
11. An antibody or antibody fragment of claim 10, wherein the protein consists of the amino acid sequence selected from the group consisting of SEQ ID NOS: 17-71 or a receptor binding portion of the amino acid sequence.

12. An antibody or antibody fragment of claim 10, wherein the protein comprises the amino acid sequence selected from the group consisting of SEQ ID NOS: 17-71.

13. An antibody or antibody fragment of claim 11, wherein the protein consists of the amino acid sequence selected from the group consisting of SEQ ID NOS: 17-71.

14. An antibody or antibody fragment of claim 9, wherein the protein consists of an amino acid sequence of not more than 50 amino acids in length, the amino acid sequence is one selected from the group consisting of

- (a) Xaa<sub>1</sub> Thr Xaa<sub>2</sub> Xaa<sub>3</sub> Ser Xaa<sub>4</sub> Xaa<sub>5</sub> Xaa<sub>6</sub> Asn Xaa<sub>7</sub> Arg (SEQ ID NO: 72), where Xaa<sub>1</sub> is Ser or Thr; Xaa<sub>2</sub> is Arg or Lys; Xaa<sub>3</sub> is Lys or Arg; Xaa<sub>4</sub> is Ser or Leu;

Xaa<sub>5</sub> is Arg, Ile, Val, or Ser; Xaa<sub>6</sub> is Ser, Tyr, Phe, or His; and Xaa<sub>7</sub> is Pro, His or Arg;

- (b) Asp Xaa<sub>1</sub> Asp Xaa<sub>2</sub> Arg Arg Xaa<sub>3</sub> Xaa<sub>4</sub> (SEQ ID NO: 73) where Xaa<sub>1</sub> is Ser, Ala, or Gly; Xaa<sub>2</sub> is Val or Gln; Xaa<sub>3</sub> is Pro, Gly, or Ser; and Xaa<sub>4</sub> is Trp or Tyr;
- (c) Val Arg Ser Gly Cys Gly Xaa<sub>1</sub> Xaa<sub>2</sub> Ser Ser (SEQ ID NO: 74), where Xaa<sub>1</sub> is Ala or Phe; and Xaa<sub>2</sub> is Arg or His;
- (d) NTRKSSRSNPR (SEQ ID NO: 75);
- (e) STKRSLIYNHR (SEQ ID NO: 76);
- (f) STGRKVFNRR (SEQ ID NO: 77);
- (g) TNAKHSSHNR (SEQ ID NO: 78);
- (h) DSDVRRPW (SEQ ID NO: 79);
- (i) AADQRRGW (SEQ ID NO: 80);
- (j) DGRGGRSY (SEQ ID NO: 81);
- (k) RVRS (SEQ ID NO: 82);
- (l) SVRSGCGFRGSS (SEQ ID NO: 83);
- (m) SVRGGCGAHSS (SEQ ID NO: 84).
15. An antibody of claim 1.
16. An antibody of claim 2.
17. An antibody of claim 3.
18. An antibody of claim 9.
19. An antibody of claim 10.
20. An antibody of claim 11.
21. An antibody of claim 12.
22. An antibody of claim 13.
23. An antibody of claim 14.
24. An antibody or antibody fragment, said antibody or antibody fragment

capable of immunospecifically binding to a protein, said protein being capable of specific binding to a GIT transport receptor.

25. An antibody or antibody fragment of Claim 24, wherein the antibody or antibody fragment is selected from the group consisting of a polyclonal antibody, monoclonal antibody, chimeric antibody, single chain antibody, a Fab fragment or a member of a Fab expression library.

26. An antibody or antibody fragment of claim 24, wherein the protein consists of an amino acid sequence selected from the group consisting of ZElan033 (PAX2 15 mer) (SEQ ID NO:1), ZElan088 (HAX42-2 20 mer) (SEQ ID NO:2) or ZElan053 (P31 D-form 16 mer) (SEQ ID NO:3).

27. An antibody or antibody fragment of Claim 24, wherein the GIT transport receptor is selected from the group consisting of D2H (domain 387-685) (SEQ ID NO:13), hS1 (domain 272-667) (SEQ ID NO:14), HPT1 (domain 29-273) (SEQ ID NO:15), and hPEPT1 (domain 391-571) (SEQ ID NO:16).

28. An antibody or antibody fragment of claim 27, wherein the protein comprises either an amino acid sequence selected from the group consisting of SEQ ID NOS: 17-71 or a receptor binding portion of the amino acid sequence.

29. An antibody or antibody fragment of claim 28, wherein the protein consists of the amino acid sequence selected from the group consisting of SEQ ID NOS: 17-71 or a receptor binding portion of the amino acid sequence.

30. An antibody or antibody fragment of claim 29, wherein the protein comprises the amino acid sequence selected from the group consisting of SEQ ID NOS: 17-71.

31. An antibody or antibody fragment of claim 27, wherein the protein consists of the amino acid sequence selected from the group consisting of SEQ ID NOS: 17-71.

32. An antibody or antibody fragment of claim 24, wherein the protein consists of an amino acid sequence of not more than 50 amino acids in length, the amino acid sequence is one selected from the group consisting of

(b) Xaa<sub>1</sub> Thr Xaa<sub>2</sub> Xaa<sub>3</sub> Ser Xaa<sub>4</sub> Xaa<sub>5</sub> Xaa<sub>6</sub> Asn Xaa<sub>7</sub> Arg (SEQ ID NO: 72), where Xaa<sub>1</sub> is Ser or Thr; Xaa<sub>2</sub> is Arg or Lys; Xaa<sub>3</sub> is Lys or Arg; Xaa<sub>4</sub> is Ser or Leu; Xaa<sub>5</sub> is Arg, Ile, Val, or Ser; Xaa<sub>6</sub> is Ser, Tyr, Phe, or His; and Xaa<sub>7</sub> is Pro, His or Arg;

(b) Asp Xaa<sub>1</sub> Asp Xaa<sub>2</sub> Arg Arg Xaa<sub>3</sub> Xaa<sub>4</sub> (SEQ ID NO: 73) where Xaa<sub>1</sub> is Ser, Ala, or Gly; Xaa<sub>2</sub> is Val or Gln; Xaa<sub>3</sub> is Pro, Gly, or Ser; and Xaa<sub>4</sub> is Trp or Tyr;

(c) Val Arg Ser Gly Cys Gly Xaa<sub>1</sub> Xaa<sub>2</sub> Ser Ser (SEQ ID NO: 74), where Xaa<sub>1</sub> is Ala or Phe; and Xaa<sub>2</sub> is Arg or His;

(d) NTRKSSRSNPR (SEQ ID NO: 75);

(e) STKRSLIYNHR (SEQ ID NO: 76);

(f) STGRKVFNR (SEQ ID NO: 77);

(g) TNAKHSSHNR (SEQ ID NO: 78);

(h) DSDVRRPW (SEQ ID NO: 79);

(i) AADQRRGW (SEQ ID NO: 80);

(j) DGRGGFSY (SEQ ID NO: 81);

(k) RVRS (SEQ ID NO: 82);

(l) SVRSGCGFRGSS (SEQ ID NO: 83);

(m) SVRGCGGAHSS (SEQ ID NO: 84).

33. An antibody of claim 24.

34. An antibody of claim 25.

35. An antibody of claim 26.

36. An antibody of claim 27.

37. An antibody of claim 28.

38. An antibody of claim 29.

39. An antibody of claim 30.

40. An antibody of claim 31.